



# **STIC Search Report**

## **EIC 2100**

**STIC Database Tracking Number: 157398**

**TO: Dung Dinh**  
**Location: RND 4A39**  
**Art Unit: 2152**  
**Friday, July 15, 2005**

**Case Serial Number: 09/702737**

**From: Ruth E. Spink**  
**Location: EIC 2100**  
**RND-4B31**  
**Phone: 23524**

**Ruth.spink@uspto.gov**

### **Search Notes**

Dung – Attached is the NPL search for the above referenced case. Be sure to let me know if you need any further help with this search.

Ruth

Set	Items	Description
S1	75	AU='LUDWIG L' OR AU='LUDWIG L F' OR AU='LUDWIG LESTER' OR - AU='LUDWIG LESTER C O COLLABORATION PROPERTIES INC' OR AU='LU- DWIG LESTER F'
S2	3	AU='LUDWIG LESTER FRANK' OR AU='LUDWIG LESTER FRANK JR'
S3	11	AU='LAUWERS C' OR AU='LAUWERS C J' OR AU='LAUWERS CHRIS' OR AU='LAUWERS CHRIS J'
S4	25	AU='LANTZ K' OR AU='LANTZ K A' OR AU='LANTZ KEITH A'
S5	22	AU='BURNETT G' OR AU='BURNETT G J'
S6	16	AU='BURNETT GERALD' OR AU='BURNETT GERALD J'
S7	26	AU='BURNS E' OR AU='BURNS E R'
S8	7	AU='BURNS EMMET' OR AU='BURNS EMMET R' OR AU='BURNS EMMETT'
S9	7	AU='BURNS EMMETT R' OR AU='BURNS EMMETT R P O BOX 10279'
S10	124	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9
S11	9	S10 AND IC=G06F
S12	9	IDPAT (sorted in duplicate/non-duplicate order)
S13	5	IDPAT (primary/non-duplicate records only)
S14	11	AU='LAUWERS J' OR AU='LAUWERS J C' OR AU='LAUWERS J CHRIS'
S15	2	S14 AND IC=G06F
S16	0	S15 NOT S13
S17	5	S10 AND MC=(T01-H07C OR T01-J10C OR W02-F08A1)
S18	4	S17 NOT S13
S19	4	IDPAT (sorted in duplicate/non-duplicate order)
S20	4	IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2005/Feb(Updated 050606)		
(c) 2005 JPO & JAPIO		
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200540		
(c) 2005 Thomson Derwent		
File 349:PCT FULLTEXT 1979-2005/UB=20050623,UT=20050616		
(c) 2005 WIPO/Univentio		
File 348:EUROPEAN PATENTS 1978-2005/Jun W03		
(c) 2005 European Patent Office		

13/5/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

013933192 \*\*Image available\*\*  
WPI Acc No: 2001-417406/200144  
XRPX Acc No: N01-309302

**Multimedia collaboration reporting system in multimedia network, has reporting module to generate report with respect to query parameter information received from user**

Patent Assignee: COLLABORATION PROPERTIES INC (COLL-N)  
Inventor: **BURNETT G** ; CALABY L; HORSCHMAN E; HUGHES J; INN Y; LAUWERS J C;  
**LUDWIG L** ; VANDERLIPPE R; WALLIN B

Number of Countries: 093 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200077687	A1	20001221	WO 2000US15990	A	20000609	200144 B
AU 200057320	A	20010102	AU 200057320	A	20000609	200144
EP 1208473	A1	20020529	EP 2000942737	A	20000609	200243
			WO 2000US15990	A	20000609	

Priority Applications (No Type Date): US 99138921 P 19990611

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200077687 A1 E 107 G06F-017/30

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH  
CN CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG  
KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD  
SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200057320 A G06F-017/30 Based on patent WO 200077687

EP 1208473 A1 E G06F-017/30 Based on patent WO 200077687

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): WO 200077687 A1

NOVELTY - A database module (205) records an internal network system events, an external network system events and service events that are monitored with a monitoring module. The stored monitored events are classified with respect to the predetermined characteristics and attributes. Reporting modules (207) generate a report based on the query parameter information received from user.

USE - In multimedia network for e.g. event and sports reporting system.

ADVANTAGE - Provides a wide range of information on usage, operations, costs and failure in wide variety of report format.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of multimedia network.

Data base module (205)

Reporting module (207)

pp; 107 DwgNo 4/25

Title Terms: REPORT; SYSTEM; NETWORK; REPORT; MODULE; GENERATE; REPORT;  
RESPECT; QUERY; PARAMETER; INFORMATION; RECEIVE; USER

Derwent Class: T01; W01

International Patent Class (Main): **G06F-017/30**

File Segment: EPI

13/5/3 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012520932 \*\*Image available\*\*  
WPI Acc No: 1999-327038/199927  
XRPX Acc No: N99-245301

**Scalable networked multimedia system for audio-video processing**

Patent Assignee: COLLABORATION PROPERTIES INC (COLL-N)  
Inventor: APPLEBAUM D; BROWN W B; **BURNETT G** ; **LAUWERS C** ; **LUDWIG L** ; LUI  
R; VANDERLIPPE R W; VUONG A T; YUL I J  
Number of Countries: 084 Number of Patents: 004  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9923560	A1	19990514	WO 98US23596	A	19981104	199927 B
AU 9914515	A	19990524	AU 9914515	A	19981104	199940
EP 1029273	A1	20000823	EP 98958473	A	19981104	200041
			WO 98US23596	A	19981104	
US 6816904	B1	20041109	US 9764266	P	19971104	200474
			WO 98US23596	A	19981104	
			US 2000565192	A	20000504	

Priority Applications (No Type Date): US 9764266 P 19971104; US 2000565192  
A 20000504

**Patent Details:**

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 9923560	A1	E 204	G06F-009/46	
Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW				
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW				
AU 9914515	A		H04L-012/56	Based on patent WO 9923560
EP 1029273	A1	E	G06F-009/46	Based on patent WO 9923560
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE				
US 6816904	B1		G06F-017/30	Provisional application US 9764266 Cont of application WO 98US23596

**Abstract (Basic): WO 9923560 A1**

NOVELTY - A signal path interconnects several workstations (12) and a storage server (100). Each workstation (40) includes video and audio reproduction capabilities, and video and audio capture capabilities. The storage servers (100) comprise a set of storage cells (120) which include one or more encoding (132) and transcoding converters for transforming audio and video signals from a workstation into a form suitable for storage, and which operate under the direction of a storage cell manager (160).

DETAILED DESCRIPTION - A number of networks and at least one storage server (100) form the networked multimedia system (10). A signal path interconnects the workstations (12) and the storage server (100). Each workstation (40) includes video and audio reproduction capabilities, as well as video and audio capture capabilities. Any given storage server (100) comprises a set of storage cells (120) that operate under the direction of a storage cell manager (160). A storage cell (120) includes one or more encoding (132) and transcoding converters for converting or transforming audio and video signals originating at a workstation into a form suitable for storage. The storage cell controller responds to signals received from the workstations (40), and oversees the operation of the storage cells to facilitate the storage of converted audio and video signals in at least one file that can be simultaneously accessed by one or more application programs executing on one or more workstations. INDEPENDENT CLAIMS are included for; a method of using a networked multimedia system.

USE - Scalable audio-video server system and Application Program Interface with range of associated software applications to provide networked multimedia processing.

ADVANTAGE - Uses resource sharing and full range of networked signal distribution technology.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of a Collaborative Multimedia Computing system incorporating an Audio/Video Server System of the invention.

Networked multimedia system (10)

Workstations (12)

Analogue links (14)

User workstations (40)

A/V conference rooms (45)

Audio/Video Server System (100)

Storage cells (120)

Decoding converters (134)

pp; 204 DwgNo 3/46

Title Terms: SYSTEM; AUDIO; VIDEO; PROCESS

Derwent Class: T01; W01

International Patent Class (Main): G06F-009/46 ; G06F-017/30 ;

H04L-012/56

International Patent Class (Additional): G06F-015/173 ; H04L-012/28;

H04L-012/40

File Segment: EPI

13/5/4 (Item 4 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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010224105 \*\*Image available\*\*

WPI Acc No: 1995-125360/199517

Related WPI Acc No: 1998-233284; 1998-233285; 1998-233286; 1998-233287

XPX Acc No: N95-099199

**Teleconference system separating real-time and async. networks - couples distributed video mosaic generator to AV path for combining portion of mosaic image with captured image of third of participants**

Patent Assignee: VICOR INC (VICO-N); COLLABORATION PROPERTIES INC (COLL-N);  
 BURNETT G J (BURN-I); BURNS E R (BURN-I); LANTZ K A (LANT-I); LAUWERS J C (LAUW-I); LUDWIG L F (LUDW-I)

Inventor: **BURNETT G J ; BURNS E R ; LANTZ K A ; LAUWERS J C ; LUDWIG L F ; LAUWERS C J ; BURNS E ; BUTNETT G J ; LAUWERS C**

Number of Countries: 058 Number of Patents: 080

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2282506	A	19950405	GB 9410665	A	19940527	199517 B
WO 9510157	A1	19950413	WO 94US2961	A	19940316	199520
WO 9510158	A2	19950413	WO 94US11193	A	19941003	199520
AU 9471988	A	19950501	AU 9471988	A	19940316	199532
AU 9479638	A	19950501	AU 9479638	A	19941003	199532
WO 9510158	A3	19950526	WO 94US11193	A	19941003	199616
EP 721725	A1	19960717	EP 94921163	A	19940316	199633
			WO 94US2961	A	19940316	
EP 721726	A1	19960717	EP 94930561	A	19941003	199633
			WO 94US11193	A	19941003	
US 5617539	A	19970401	US 93131523	A	19931001	199719
			US 96660460	A	19960607	
US 5689641	A	19971118	US 93131523	A	19931001	199801
GB 2282506	B	19980624	GB 9410665	A	19940527	199827
US 5758079	A	19980526	US 93131523	A	19931001	199828
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US 5802294	A	19980901	US 93131523	A	19931001	199842
			US 96660461	A	19960607	
CA 2204442	C	19981020	CA 2173204	A	19940316	199901
			CA 2204442	A	19971107	
US 5854893	A	19981229	US 93131523	A	19931001	199908
			US 96660880	A	19960610	
EP 898424	A2	19990224	EP 94921163	A	19940316	199912
			EP 98120173	A	19940316	
US 5867654	A	19990202	US 93131523	A	19931001	199912
			US 96650123	A	19960607	
EP 899952	A2	19990303	EP 94930561	A	19941003	199913
			EP 98120170	A	19941003	
EP 899953	A2	19990303	EP 94930561	A	19941003	199913
			EP 98120171	A	19941003	
EP 899954	A2	19990303	EP 94930561	A	19941003	199913
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			US 96660418	A	19960607	
EP 912055	A2	19990428	EP 94930561	A	19941003	199921
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US 5896500	A	19990420	US 93131523	A	19931001	199923
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US 5915091	A	19990622	US 93131523	A	19931001	199931
			US 96661530	A	19960611	
EP 955765	A1	19991110	EP 94921163	A	19940316	199952
			EP 99202661	A	19940316	
US 5978835	A	19991102	US 93131523	A	19931001	199953

CA 2290701	A1	19950413	US 96659949	A	19960607	
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CA 2296187	A1	19950413	CA 2173209	A	19941003	200034
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CA 2296182	C	20001219	CA 2173209	A	19941003	200103
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			WO 94US11193	A	19941003	
			EP 98120170	A	19941003	
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			EP 98120172	A	19941003	
			EP 98120175	A	19941003	
CA 2173209	C	20010213	CA 2173209	A	19941003	200112
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DE 69426456	E	20010125	DE 94626456	A	19941003	200112
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			WO 94US11193	A	19941003	
US 6212547	B1	20010403	US 93131523	A	19931001	200120
			US 96660805	A	19960607	
			US 9872542	A	19980505	
US 6237025	B1	20010522	US 93131523	A	19931001	200130
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			US 97994848	A	19971219	
CA 2296181	C	20010626	CA 2173209	A	19941003	200138
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CA 2296185	C	20010724	CA 2173209	A	19941003	200147
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CA 2296189	C	20010724	CA 2173209	A	19941003	200147
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EP 898424	B1	20011017	EP 94921163	A	19940316	200169
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			US 2001879460	A	20010611	
DE 69428725	E	20011122	DE 94628725	A	19940316	200201
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			US 97847828	A	19970428	
EP 912056	B1	20020109	EP 94930561	A	19941003	200211
			EP 98120175	A	19941003	
US 6351762	B1	20020226	US 93131523	A	19931001	200220
			US 96664238	A	19960607	
EP 899953	B1	20020327	EP 94930561	A	19941003	200222
			EP 98120171	A	19941003	
DE 69429684	E	20020228	DE 94629684	A	19941003	200223
			EP 98120175	A	19941003	

DE 69430272	E	20020502	DE 94630272	A	19941003	200237
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US 6437818	B1	20020820	US 93131523	A	19931001	200257
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			US 2002120307	A	20020409	
CA 2297940	C	20020910	CA 2173204	A	19940316	200264
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US 20020154210	A1	20021024	US 93131523	A	19931001	200273
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EP 721725	B1	20021009	EP 94921163	A	19940316	200274
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			EP 99202661	A	19940316	
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			EP 98120174	A	19940316	
DE 69431525	E	20021114	DE 94631525	A	19940316	200282
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			EP 98120174	A	19940316	
EP 1307038	A2	20030502	EP 94930561	A	19941003	200331
			EP 98120170	A	19941003	
			EP 200375276	A	19941003	
US 6583806	B2	20030624	US 93131523	A	19931001	200343
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			US 97833511	A	19970407	
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DE 69432803	E	20030710	DE 94632803	A	19941003	200353
			EP 98120170	A	19941003	
EP 899954	B1	20030813	EP 94930561	A	19941003	200355
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US 20030158901	A1	20030821	US 93131523	A	19931001	200356
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			US 2003382553	A	20030304	
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DE 69433042	E	20030918	DE 94633042	A	19941003	200369
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US 20030225832	A1	20031204	US 93131523	A	19931001	200380
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			US 97994848	A	19971219	
			US 2000702737	A	20001101	



			US 2001879460	A	20010611	
			US 2002120559	A	20020409	
US 20040103152	A1	20040527	US 93131523	A	19931001	200435
			US 96660461	A	19960607	
			US 97994848	A	19971219	
			US 2000702737	A	20001101	
			US 2003721343	A	20031126	
US 20040107253	A1	20040603	US 93131523	A	19931001	200436
			US 96660461	A	19960607	
			US 97994848	A	19971219	
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			US 2003721385	A	20031126	
US 20040107254	A1	20040603	US 93131523	A	19931001	200436
			US 96660461	A	19960607	
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			US 2000702737	A	20001101	
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			US 96660461	A	19960607	
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US 6789105	B2	20040907	US 93131523	A	19931001	200459
			US 96660461	A	19960607	
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			US 2001879460	A	20010611	
			US 2002120559	A	20020409	
US 6898620	B1	20050524	US 96660805	A	19960607	200535 N
			US 9872549	A	19980505	

Priority Applications (No Type Date): US 93131523 A 19931001; US 96660460 A 19960607; US 96660805 A 19960607; US 96660461 A 19960607; US 96660880 A 19960610; US 96650123 A 19960607; US 96660418 A 19960607; US 96659952 A 19960607; US 96661530 A 19960611; US 96659949 A 19960607; US 9872542 A 19980505; US 97994848 A 19971219; US 2000702737 A 20001101; US 2001879460 A 20010611; US 97847828 A 19970428; US 96664238 A 19960607; US 9872626 A 19980505; US 9872622 A 19980505; US 2002120307 A 20020409; US 97833511 A 19970407; US 2003382553 A 20030304; US 2003382554 A 20030304; US 2002120559 A 20020409; US 2003721343 A 20031126; US 2003721385 A 20031126; US 2003721905 A 20031126; US 2003722051 A 20031126; US 9872549 A 19980505

Cited Patents: 4.Jnl.Ref; DE 3507152; EP 354370; EP 497022; EP 190060; EP 523626; EP 561381

#### Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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GB 2282506	A	112	H04N-007/15		
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WO 9510157	A1	116	H04N-007/15		
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Designated States (National): AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB HU JP KP KR KZ LK LU LV MG MN MW NL NO NZ PL PT RO RU SD SE SK UA US UZ VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE

WO 9510158	A2	102	H04N-007/15		
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Designated States (National): AM AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB GE HU JP KE KG KP KR KZ LK LT LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA US UZ VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ

AU 9471988	A		H04N-007/15	Based on patent WO 9510157
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AU 9479638	A		H04N-007/15	Based on patent WO 9510158
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WO 9510158	A3		H04N-007/15	
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EP 721725	A1 E	112	H04N-007/15	Based on patent WO 9510157
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Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

EP 721726 A1 E 112 H04N-007/15 Based on patent WO 9510158  
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
NL PT SE

US 5617539 A 54 H04L-012/28 Div ex application US 93131523  
US 5689641 A 59 H04N-007/15  
GB 2282506 B H04N-007/15  
US 5758079 A H04M-003/56 Div ex application US 93131523  
Div ex patent US 5689641  
US 5802294 A G06F-013/00 Cont of application US 93131523  
Cont of patent US 5689641  
CA 2204442 C H04N-007/15 Div ex application CA 2173204  
US 5854893 A G06F-013/00 Div ex application US 93131523  
Div ex patent US 5689641  
EP 898424 A2 E H04N-007/15 Div ex application EP 94921163  
Div ex patent EP 721725

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
NL PT SE

US 5867654 A G06F-015/16 Div ex application US 93131523  
Div ex patent US 5689641  
EP 899952 A2 E H04N-007/15 Div ex application EP 94930561  
Div ex patent EP 721726

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
NL PT SE

EP 899953 A2 E H04N-007/15 Div ex application EP 94930561  
Div ex patent EP 721726

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
NL PT SE

EP 899954 A2 E H04N-007/15 Div ex application EP 94930561  
Div ex patent EP 721726

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
NL PT SE

US 5884039 A G06F-015/16 Div ex application US 93131523  
Div ex patent US 5689641  
EP 912055 A2 E H04N-007/15 Div ex application EP 94930561  
Div ex patent EP 721726

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
NL PT SE

EP 912056 A2 E H04N-007/15 Div ex application EP 94930561  
Div ex patent EP 721726

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
NL PT SE

US 5896500 A G06F-013/14 Div ex application US 93131523  
Div ex patent US 5689641  
US 5915091 A G06F-015/16 Cont of application US 93131523  
Cont of patent US 5689641  
EP 955765 A1 E H04M-003/56 Div ex application EP 94921163  
Div ex patent EP 721725

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
NL PT SE

US 5978835 A G06F-015/16 Div ex application US 93131523  
Div ex patent US 5689641  
CA 2290701 A1 E H04N-007/15 Div ex application CA 2173204  
CH 690154 A5 H04N-007/15  
CA 2296181 A1 E H04N-007/15 Div ex application CA 2173209  
CA 2296182 A1 E H04N-007/15 Div ex application CA 2173209  
CA 2296185 A1 E H04N-007/15 Div ex application CA 2173209  
CA 2296187 A1 E H04N-007/15 Div ex application CA 2173209  
CA 2296189 A1 E H04N-007/15 Div ex application CA 2173209  
CA 2297940 A1 E H04N-007/15 Div ex application CA 2173204  
CA 2173204 C E H04N-007/15 Based on patent WO 9510157  
CA 2296182 C E H04N-007/15 Div ex application CA 2173209  
EP 721726 B1 E H04N-007/15 Related to application EP 98120170  
Related to application EP 98120171  
Related to application EP 98120172  
Related to application EP 98120175

Related to patent EP 899952  
 Related to patent EP 899953  
 Related to patent EP 899954  
 Related to patent EP 912056  
 Based on patent WO 9510158

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
 NL PT SE

CA 2173209	C E	H04N-007/15	Based on patent WO 9510158
DE 69426456	E	H04N-007/15	Based on patent EP 721726
			Based on patent WO 9510158
US 6212547	B1	G06F-015/16	Div ex application US 93131523
			Cont of application US 96660805
			Div ex patent US 5689641
			Cont of patent US 5758079
US 6237025	B1	G06F-013/00	Cont of application US 93131523
			Cont of application US 96660461
			Cont of patent US 5689641
			Cont of patent US 5802294
CA 2296181	C E	H04N-007/15	Div ex application CA 2173209
CA 2296185	C E	H04N-007/15	Div ex application CA 2173209
CA 2296187	C E	H04N-007/15	Div ex application CA 2173209
CA 2296189	C E	H04N-007/15	Div ex application CA 2173209
EP 898424	B1 E	H04N-007/15	Div ex application EP 94921163
			Div ex patent EP 721725

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
 NL PT SE

US 20010044826 A1		G06F-015/16	Cont of application US 93131523
			Cont of application US 96660461
			Div ex application US 97994848
			Div ex application US 2000702737
			Cont of patent US 5689641
			Cont of patent US 5802294
			Div ex patent US 6237025
DE 69428725	E	H04N-007/15	Based on patent EP 898424
US 6343314	B1	G06F-015/00	Cont of application US 93131523
			Cont of application US 96659952
			Cont of patent US 5689641
			Cont of patent US 5896500
EP 912056	B1 E	H04N-007/15	Div ex application EP 94930561
			Div ex patent EP 721726

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
 NL PT SE

US 6351762	B1	G06F-015/16	Cont of application US 93131523
			Cont of patent US 5689641
EP 899953	B1 E	H04N-007/15	Div ex application EP 94930561
			Div ex patent EP 721726

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
 NL PT SE

DE 69429684	E	H04N-007/15	Based on patent EP 912056
DE 69430272	E	H04N-007/15	Based on patent EP 899953
US 6426769	B1	H04N-007/14	Cont of application US 93131523
			Cont of application US 96660805
			Cont of patent US 5689641
			Cont of patent US 5758079
US 6437818	B1	H04N-007/14	Cont of application US 93131523
			Cont of application US 96660805
			Cont of patent US 5689641
			Cont of patent US 5758079
US 20020124051 A1		G06F-015/16	Cont of application US 93131523
			Cont of application US 96660461
			Div ex application US 97994848
			Div ex application US 2000702737
			Div ex application US 2001879460
			Cont of patent US 5689641
			Cont of patent US 5802294

CA 2297940	C E	H04N-007/15	Div ex patent US 6237025
US 20020154210	A1	H04N-007/14	Div ex application CA 2173204
			Cont of application US 93131523
			Cont of application US 96650123
			Cont of patent US 5689641
			Cont of patent US 5867654
EP 721725	B1 E	H04N-007/15	Related to application EP 98120173
			Related to application EP 98120174
			Related to application EP 99202661
			Related to patent EP 898424
			Related to patent EP 912055
			Related to patent EP 955765
			Based on patent WO 9510157
Designated States (Regional): AT			BE CH DE DK ES FR GB GR IE IT LI LU MC
NL PT SE			
EP 912055	B1 E	H04N-007/15	Div ex application EP 94921163
			Div ex patent EP 721725
Designated States (Regional): AT			BE CH DE DK ES FR GB GR IE IT LI LU MC
NL PT SE			
DE 69431525	E	H04N-007/15	Based on patent EP 721725
			Based on patent WO 9510157
DE 69431536	E	H04N-007/15	Based on patent EP 912055
EP 1307038	A2 E	H04M-003/56	Div ex application EP 94930561
			Div ex application EP 98120170
			Div ex patent EP 721726
			Div ex patent EP 899952
Designated States (Regional): AT			BE CH DE DK ES FR GB GR IE IT LI LT LU
MC NL PT SE			
US 6583806	B2	H04N-007/14	Cont of application US 93131523
			Cont of application US 96650123
			Cont of patent US 5689641
EP 899952	B1 E	H04N-007/15	
Designated States (Regional): AT			BE CH DE DK ES FR GB GR IE IT LI LU MC
NL PT SE			
US 6594688	B2	G06F-013/00	Cont of application US 93131523
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			Div ex application US 97994848
			Div ex application US 2000702737
			Cont of patent US 5689641
			Cont of patent US 5802294
			Div ex patent US 6237025
DE 69432803	E	H04N-007/15	Based on patent EP 899952
EP 899954	B1 E	H04N-007/15	Div ex application EP 94930561
			Div ex patent EP 721726
Designated States (Regional): AT			BE CH DE DK ES FR GB GR IE IT LI LU MC
NL PT SE			
US 20030158901	A1	G06F-015/16	Cont of application US 93131523
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			Div ex application US 97994848
			Div ex application US 2000702737
			Div ex application US 2001879460
			Cont of patent US 5689641
			Cont of patent US 5802294
			Div ex patent US 6237025
US 20030187940	A1	G06F-015/16	CIP of application US 93131523
			Cont of application US 96660461
			Div ex application US 97994848
			Div ex application US 2000702737
			Div ex application US 2001879460
			CIP of patent US 5689641
			Cont of patent US 5802294
			Div ex patent US 6237025
			Div ex patent US 6594688
DE 69433042	E	H04N-007/15	Based on patent EP 899954
US 20030225832	A1	G06F-015/16	Cont of application US 93131523

			Cont of application US 96660461
			Div ex application US 97994848
			Div ex application US 2000702737
			Div ex application US 2001879460
			Cont of patent US 5689641
			Cont of patent US 5802294
			Div ex patent US 6237025
			Div ex patent US 6594688
US 20040103152 A1	G06F-015/16		Cont of application US 93131523
			Cont of application US 96660461
			Cont of application US 97994848
			Cont of application US 2000702737
			Cont of patent US 5689641
			Cont of patent US 5802294
			Cont of patent US 6237025
US 20040107253 A1	G06F-015/16		Cont of application US 93131523
			Cont of application US 96660461
			Cont of application US 97994848
			Cont of application US 2000702737
			Cont of patent US 5689641
			Cont of patent US 5802294
			Cont of patent US 6237025
US 20040107254 A1	G06F-015/16		Cont of application US 93131523
			Cont of application US 96660461
			Cont of application US 97994848
			Cont of application US 2000702737
			Cont of patent US 5689641
			Cont of patent US 5802294
			Cont of patent US 6237025
US 20040107255 A1	G06F-015/16		Cont of application US 93131523
			Cont of application US 96660461
			Cont of application US 97994848
			Cont of application US 2000702737
			Cont of patent US 5689641
			Cont of patent US 5802294
			Cont of patent US 6237025
US 6789105 B2	G06F-015/16		Cont of application US 93131523
			Cont of application US 96660461
			Div ex application US 97994848
			Div ex application US 2000702737
			Div ex application US 2001879460
			Cont of patent US 5689641
			Cont of patent US 5802294
			Div ex patent US 6237025
US 6898620 B1	G06F-015/173		Cont of application US 96660805
			Cont of patent US 5758079

Abstract (Basic): GB 2282506 A

The real-time network is used for audio and video. The async. network is used for control signals and textual, graphical and other data. An AV path (13) carries signals among the work-stations. A video mosaic generator combines images.

Geographically dispersed LANs (10) interconnected by a WAN (15) can reduce demands made on the latter by employing multi-hopping, including avoidance of unnecessary decompression of data at intermediate hops, as well as video mosaicing and cut-and-paste facilities.

USE/ADVANTAGE - Closely approximates experience of face-to-face collaboration. System architecture readily scalable to largest enterprise network environments. Accommodates differing levels of collaborative capabilities available to individual users and permits high quality audio and video capabilities to be readily super imposed onto existing personal computers and work-stations.

Dwg.1/42

Title Terms: TELECONFERENCE; SYSTEM; SEPARATE; REAL-TIME; ASYNCHRONOUS; NETWORK; COUPLE; DISTRIBUTE; VIDEO; MOSAIC; GENERATOR; AV; PATH;

COMBINATION; PORTION; MOSAIC; IMAGE; CAPTURE; IMAGE; THIRD; PARTICIPATING  
Derwent Class: T01; W02  
International Patent Class (Main): **G06F-013/00** ; **G06F-013/14** ;  
**G06F-015/00** ; **G06F-015/16** ; **G06F-015/173** ; H04L-012/28; H04M-003/56;  
H04N-007/14; H04N-007/15  
International Patent Class (Additional): **G06F-017/30** ; H04L-012/00;  
H04L-012/18; H04L-012/46; H04M-003/42; H04M-003/50; H04Q-005/02  
File Segment: EPI

20/5/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

017057328 \*\*Image available\*\*  
WPI Acc No: 2005-381653/200539  
Related WPI Acc No: 2005-330818  
XRPX Acc No: N05-309006

**Data communication system e.g. audio IP phone, for use in network environment, has video bridge to delay all video streams, where mixed outputs from audio bridge and video bridge are communicated back to each end point**

Patent Assignee: CISCO TECHNOLOGY INC (CISC-N)  
Inventor: FIRESTONE S S; FRIEDRICH W R; ISMAIL N M; **LANTZ K A** ; SARKAR S;  
SURAZSKI L K; WU D

Number of Countries: 108 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20050078171	A1	20050414	US 2003680918	A	20031008	200539 B
			US 2003703859	A	20031106	
WO 200536878	A1	20050421	WO 2004US32977	A	20041006	200539

Priority Applications (No Type Date): US 2003680918 A 20031008; US  
2003703859 A 20031106

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20050078171	A1	19	H04N-007/14	Cont of application US 2003680918
WO 200536878	A1 E		H04N-007/14	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ  
CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID  
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ  
NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ  
UA UG US UZ VC VN YU ZA ZM ZW  
Designated States (Regional): AT BE BG BW CH CY CZ DE DK EA EE ES FI FR  
GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL  
SZ TR TZ UG ZM ZW

Abstract (Basic): US 20050078171 A1

NOVELTY - The system (10) has a video bridge to delay all of video streams such that an input-to-output matching of each individual video stream is matched to mapping of a corresponding audio stream. A mixed output video stream is created by mixing the delayed video streams such that mixed outputs from an audio bridge and the video bridge is communicated back to each of end points (12) such that the video conference is facilitated.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(A) a method for performing distributed video conferencing

(B) software for performing distributed video conferencing.

USE - Used for communicating data in a network environment.

ADVANTAGE - The system provides for more appropriate data-routing procedure to achieve optimal data management in a video conferencing environment. The end points choose to lock-on to a particular participant of the conference at any appropriate time. The system allows for more economical video conferencing configurations and provides audio/video synchronization of videoconferences when the audio bridge and the video bridge are not necessarily co-located on the same given network device.

DESCRIPTION OF DRAWING(S) - The drawing shows a simplified block diagram of a communication system for performing distributed video conferencing.

Communication system (10)

End points (12)

Gateways (20)

20/5/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

011816377 \*\*Image available\*\*  
WPI Acc No: 1998-233287/199821  
Related WPI Acc No: 1995-125360; 1998-233284; 1998-233285; 1998-233286  
XRPX Acc No: N98-184881

**Teleconferencing system with multi-media mail facility - has AV path for carrying signals among workstations, video mosaic generator for combining images and audio summer or mixer**

Patent Assignee: VICOR INC (VICO-N)

Inventor: BURNETT G J ; BURNS E R ; LANTZ K A ; LAUWERS J C ; LUDWIG L F

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2319138	A	19980513	GB 9410665	A	19940527	199821 B
			GB 982092	A	19980130	
GB 2319138	B	19980624	GB 9410665	A	19940527	199827
			GB 982092	A	19980130	

Priority Applications (No Type Date): US 93131523 A 19931001

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
GB 2319138	A	100	H04L-012/18	Derived from application GB 9410665
GB 2319138	B		H04L-012/18	Derived from application GB 9410665

Abstract (Basic): GB 2319138 A

The system has several workstations that each have two monitors and are in communication with audio and video (AV) capture capabilities. A data path is provided in communication with the workstations over which the data can be shared among the several participants.

An AV path is provided in communication with the workstations, along which AV signals, representing video images and spoken word of participants, can be carried. The system is configured to reproduce images based on data signals shared along the data path, on at least two monitors and to reproduce participant video images, based on AV signals carried along second path, on at least two monitors.

USE - Closely approximates experience of face-to-face collaboration. Can store and forward multimedia mail messages.

ADVANTAGE - System architecture readily scalable to largest enterprise network environments. Accommodates differing levels of collaborative capabilities available to individual users and permits high quality audio and video capabilities to be readily super imposed onto existing personal computers and work-stations.

Dwg.29/42

Title Terms: TELECONFERENCE; SYSTEM; MULTI; MEDIUM; MAIL; FACILITY; AV; PATH; CARRY; SIGNAL; VIDEO; MOSAIC; GENERATOR; COMBINATION; IMAGE; AUDIO; SUMMER; MIX

Derwent Class: T01; W01; W02

International Patent Class (Main): H04L-012/18

International Patent Class (Additional): H04M-003/56; H04N-007/15

File Segment: EPI



20/5/3 (Item 3 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

011816374 \*\*Image available\*\*

WPI Acc No: 1998-233284/199821

Related WPI Acc No: 1995-125360; 1998-233285; 1998-233286; 1998-233287

XRPX Acc No: N98-184878

**Teleconferencing system for use with personal computer - initiates  
collaboration with selected participant after selecting type of  
collaboration required**

Patent Assignee: VICOR INC (VICO-N)

Inventor: BURNETT G J ; BURNS E R ; LANTZ K A ; LAUWERS J C ; LUDWIG L F

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2319135	A	19980513	GB 9410665	A	19940527	199821 B
			GB 982081	A	19980130	
GB 2319135	B	19980624	GB 9410665	A	19940527	199827
			GB 982081	A	19980130	

Priority Applications (No Type Date): US 93131523 A 19931001

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2319135	A	99		H04M-003/56	Derived from application GB 9410665
GB 2319135	B			H04M-003/56	Derived from application GB 9410665

Abstract (Basic): GB 2319135 A

The system has several workstations (12) each having monitors for displaying visual images and associated AV capture and reproduction capabilities for capturing and reproducing video images and spoken audio of participants. A common collaboration initiator initiates several types of collaboration among the participants.

The collaboration types are selected from the set consisting of data conferencing, video-conferencing, telephone conferencing, sending of faxes and sending of multimedia mail messages. The initiator consists of a callee selector for selecting one or more desired participants from several potential participants, as well as the collaboration type selector.

USE - Closely approximates experience of face-to-face collaboration, with inclusion of visualising gestures as well as spoken word.

ADVANTAGE - System architecture readily scalable to largest enterprise network environments. Accommodates differing levels of collaborative capabilities available to individual users and permits high quality audio and video capabilities to be readily super imposed onto existing personal computers and work-stations.

Dwg.36/42

Title Terms: TELECONFERENCE; SYSTEM; PERSON; COMPUTER; INITIATE; SELECT; PARTICIPATING; AFTER; SELECT; TYPE; REQUIRE

Derwent Class: T01; W01; W02

International Patent Class (Main): H04M-003/56

International Patent Class (Additional): H04L-012/18; H04N-007/15

File Segment: EPI

20/5/4 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

010792660 \*\*Image available\*\*  
WPI Acc No: 1996-289613/199630  
Related WPI Acc No: 1997-300956  
XRPX Acc No: N96-243082

**Multimedia telecommunications system** - has central office with digital switch complex coupled to public digital telephone network, and at least one twisted pair transceiver coupled to twisted pair link in telephone loop

Patent Assignee: VISIONARY CORP TECHNOLOGIES INC (VISI-N); VCT INC (VCTV-N)  
; COLLABORATION PROPERTIES INC (COLL-N); VISIONARY CORP TECHNOLOGIES (VISI-N)

Inventor: LUDWIG L F

Number of Countries: 066 Number of Patents: 011

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2296620	A	19960703	GB 9520848	A	19951011	199630 B
WO 9621986	A2	19960718	WO 95US13016	A	19951004	199634
AU 9539534	A	19960731	AU 9539534	A	19951004	199645
GB 2296620	B	19970528	GB 9520848	A	19951011	199724
EP 801858	A1	19971022	EP 95937413	A	19951004	199747
			WO 95US13016	A	19951004	
US 5751338	A	19980512	US 94367976	A	19941230	199826
US 6081291	A	20000627	US 94367976	A	19941230	200036
			US 97842745	A	19970416	
CA 2208987	C	20000829	CA 2208987	A	19951004	200051
			WO 95US13016	A	19951004	
EP 801858	B1	20031210	EP 95937413	A	19951004	200405
			WO 95US13016	A	19951004	
			EP 200323333	A	19951004	
EP 1381236	A2	20040114	EP 95937413	A	19951004	200410
			EP 200323333	A	19951004	
DE 69532299	E	20040122	DE 632299	A	19951004	200415
			EP 95937413	A	19951004	
			WO 95US13016	A	19951004	

Priority Applications (No Type Date): US 94367976 A 19941230; US 97842745 A 19970416

Cited Patents: No-Citns.

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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GB 2296620	A	140	H04Q-011/04	
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WO 9621986	A2 E	135	H04L-012/64	
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Designated States (National): AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG US UZ VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ UG

AU 9539534	A		H04L-012/64	Based on patent WO 9621986
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GB 2296620	B		H04Q-011/04	
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EP 801858	A1 E		H04L-012/64	Based on patent WO 9621986
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Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

US 5751338	A		H04N-007/10	
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US 6081291	A		H04M-007/14	Cont of application US 94367976
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CA 2208987	C E		H04M-011/08	Based on patent WO 9621986
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EP 801858	B1 E		H04L-012/64	Related to application EP 200323333
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Based on patent WO 9621986

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

EP 1381236	A2 E		H04N-007/10	Div ex application EP 95937413
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Div ex patent EP 801858

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
NL PT SE

DE 69532299 E

H04L-012/64

Based on patent EP 801858

Based on patent WO 9621986

Abstract (Basic): GB 2296620 A

The multimedia telecommunication system provides services to a number of multimedia workstations. The system includes a multimedia central office which includes a digital switch complex coupled to a public digital telephone network, and at least one twisted pair transceiver coupled to a twisted pair link in a telephone loop. A switch complex is used to control the connections between the digital switch complex and the twisted pair transceiver.

In this way, audio, video and digital data signals can be sent from a multimedia workstation coupled to the digital telephone network to a workstation coupled to a twisted pair link and vice versa. Pref. the system can provide application sharing, window sharing and/or multimedia messaging between at least two workstations. The multimedia central office can be networked to a second central office via a common carrier digital transmission link coupled to the digital switch complex.

ADVANTAGE - Provides immediate low cost, wide area access to multimedia services using twisted pair links in existing telephone loop. Allows users to take advantage of discount rates for high volume usage on common digital carriers.

Dwg. 2/26

Title Terms: TELECOMMUNICATION; SYSTEM; CENTRAL; OFFICE; DIGITAL; SWITCH; COMPLEX; COUPLE; PUBLIC; DIGITAL; TELEPHONE; NETWORK; ONE; TWIST; PAIR; TRANSCEIVER; COUPLE; TWIST; PAIR; LINK; TELEPHONE; LOOP

Index Terms/Additional Words: TELEPHONE; VIDEO; TV; TELEVISION; TELECONFERENCING

Derwent Class: T01; W01

International Patent Class (Main): H04L-012/64; H04M-007/14; H04M-011/08; H04N-007/10; H04Q-011/04

International Patent Class (Additional): H04L-029/06; H04M-003/42; H04M-003/56; H04M-011/00; H04N-007/14

File Segment: EPI

Set	Items	Description
S1	48	AU='LUDWIG, L.' OR AU='LUDWIG, L.F.'
S2	6	AU='LUDWIG, LESTER F' OR AU='LUDWIG, LESTER F.' OR AU='LUDWIG, LESTER FRANK'
S3	112	AU='LUDWIG L' OR AU='LUDWIG L F'
S4	3	AU='LUDWIG LESTER FRANK' OR AU='LUDWIG LF'
S5	16	AU='LAUWERS, J.' OR AU='LAUWERS, J. CHRIS' OR AU='LAUWERS, J.C.'
S6	11	AU='LAUWERS J'
S7	1	AU='LAUWERS C'
S8	30	AU='LANTZ, K.' OR AU='LANTZ, K. A.'
S9	3	AU='LANTZ, KEITH' OR AU='LANTZ, KEITH A'
S10	15	AU='LANTZ, KEITH A.' OR AU='LANTZ, KEITH ALLEN'
S11	21	AU='LANTZ K' OR AU='LANTZ K A'
S12	38	AU='BURNETT, G.' OR AU='BURNETT, G. J.'
S13	1	AU='BURNETT, GERALD J.'
S14	39	AU='BURNETT G' OR AU='BURNETT G J'
S15	36	AU='BURNS, E.'
S16	2	AU='BURNS, E.R.'
S17	135	AU='BURNS E'
S18	75	AU='BURNS E R'
S19	591	S1:S18
S20	12	S19 AND (EMAIL OR ELECTRONIC()MAIL OR BEYONDMAIL OR TELECONFERENC? OR VIDEOCONFERENC?)
File	2:INSPEC 1969-2005/Jun W3	(c) 2005 Institution of Electrical Engineers
File	6:NTIS 1964-2005/Jun W3	(c) 2005 NTIS, Intl Cpyrght All Rights Res
File	8:Ei Compendex(R) 1970-2005/Jun W3	(c) 2005 Elsevier Eng. Info. Inc.
File	34:SciSearch(R) Cited Ref Sci 1990-2005/Jun W4	(c) 2005 Inst for Sci Info
File	434:SciSearch(R) Cited Ref Sci 1974-1989/Dec	(c) 1998 Inst for Sci Info
File	35:Dissertation Abs Online 1861-2005/Jun	(c) 2005 ProQuest Info&Learning
File	65:Inside Conferences 1993-2005/Jun W4	(c) 2005 BLDSC all rts. reserv.
File	94:JICST-EPlus 1985-2005/May W2	(c)2005 Japan Science and Tech Corp(JST)
File	99:Wilson Appl. Sci & Tech Abs 1983-2005/May	(c) 2005 The HW Wilson Co.
File	144:Pascal 1973-2005/Jun W3	(c) 2005 INIST/CNRS
File	636:Gale Group Newsletter DB(TM) 1987-2005/Jun 29	(c) 2005 The Gale Group

20/5/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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6422138 INSPEC Abstract Number: B2000-01-7550-030, C2000-01-7140-041

**Title: Collaboration in the Information Age: the future of multimedia messaging in healthcare**

Author(s): **Ludwig, L.**

Author Affiliation: Loyola Univ. Health Syst., Maywood, IL, USA

Conference Title: Proceedings Pacific Medical Technology Symposium-PACMEDTek. Transcending Time, Distance and Structural Barriers (Cat. No.98EX211) p.285-92

Editor(s): Nelson, R.; Gelish, A.; Mun, S.K.

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 1998 Country of Publication: USA xvi+452 pp.

ISBN: 0 8186 8667 7 Material Identity Number: XX-1999-01867

U.S. Copyright Clearance Center Code: 0 8186 8667 7/98/\$10.00

Conference Title: Proceedings. Pacific Medical Technology Symposium

Conference Sponsor: Tripler Army Medical Center

Conference Date: 17-20 Aug. 1998 Conference Location: Honolulu, HI, USA

Language: English Document Type: Conference Paper (PA)

Treatment: General, Review (G)

Abstract: Today's communication tools have become multidimensional - they encompass both real-time (calls, meetings) and non-real-time (voice mail, e-mail, databases) and include multiple modes of communication, from voice and video to full-text, files and URLs. The once separate techniques for communications are overlapping to help us become more competitive, while streamlining our work and putting us back in control of our time and activities. Telepresence for work and healthcare is changing the behavioral model for collaboration, increasing efficiency and providing greater flexibility, more timely access to information and consistent support. Two large-scale collaborative telehealth projects, the Illinois Rural Telehealth Alliance and the University HealthSystem Consortium desktop **videoconferencing** initiative, are examples of how collaborative technologies are altering business practices and strategic direction and preparing organizations for the challenges of the 21st Century where geographically dispersed collaborators will be able to work together in rich ways. (11 Refs)

Subfile: B C

Descriptors: electronic messaging; groupware; health care; multimedia communication; technological forecasting; **teleconferencing**; telemedicine; teleworking

Identifiers: collaboration; Information Age; future; multimedia messaging; healthcare; multidimensional communication tools; communication modes; competitiveness; streamlining; telepresence; teleworking; behavioral model; efficiency; flexibility; timely information access; consistent support; large-scale collaborative telehealth projects; Illinois Rural Telehealth Alliance; University HealthSystem Consortium; desktop **videoconferencing** initiative; business practices; strategic direction; geographically dispersed collaborators

Class Codes: B7550 (Biomedical communication); B6210R (Multimedia communications); B6210P (Teleconferencing); C7140 (Medical administration); C6130M (Multimedia); C6130G (Groupware)

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20/5/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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04004265 INSPEC Abstract Number: C91073005

**Title: Multidimensional audio window management**

Author(s): Cohen, M.; Ludwig, L.F.

Author Affiliation: Northwestern Univ., Evanston, IL, USA

Journal: International Journal of Man-Machine Studies vol.34, no.3

p.319-36

Publication Date: March 1991 Country of Publication: UK

CODEN: IJMMBC ISSN: 0020-7373

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Proposes an organization of presentation and control that implements a flexible audio management system the authors call 'audio windows'. The result is a new user interface integrating an enhanced spatial sound presentation system, an audio emphasis system, and a gestural input recognition system. They have implemented these ideas in a modest prototype, also described, designed as an audio server appropriate for a **teleconferencing** system. Their system combines a gestural front end (currently based on a DataGlove, but whose concepts are appropriate for other devices as well) with an enhanced spatial sound system, a digital signal processing separation of multiple sound sources, augmented with 'filters', audio feedback cues that convey added information without distraction or loss of intelligibility. Their prototype employs a manual front end (requiring no keyboard or mouse) driving an auditory back end (requiring no CRT or visual display). (31 Refs)

Subfile: C

Descriptors: audio systems; **teleconferencing** ; user interfaces

Identifiers: audio window management; flexible audio management system; user interface; spatial sound presentation system; gestural input recognition system; audio server; **teleconferencing** system; gestural front end; DataGlove; digital signal processing; audio feedback cues; requiring no CRT or visual display

Class Codes: C6180 (User interfaces); C7100 (Business and administration)

20/5/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

03864070 INSPEC Abstract Number: B91027029, C91031322

**Title: Integration of CAD/CAE with multimedia teleconferencing and messaging via broadband networks and shared resource servers**

Author(s): **Ludwig, L.F.**

Author Affiliation: Bell Commun. Res., Red Bank, NJ, USA

Conference Title: Systems Integration '90. Proceedings of the First International Conference on Systems Integration (Cat. No.90TH0309-5) p. 136-43

Editor(s): Ng, P.A.; Ramamoorthy, C.V.; Seifert, L.C.; Yeh, R.T.

Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA

Publication Date: 1990 Country of Publication: USA xvi+800 pp.

ISBN: 0 8186 9027 5

U.S. Copyright Clearance Center Code: TH0309-5/90/0000/0136\$01.00

Conference Sponsor: IEEE; New Jersey Inst. Technol.; ACM; AT&T; Bell Commun. Res.; Gesellschaft fur Math. & Datenverarbeitung

Conference Date: 23-26 April 1990 Conference Location: Morristown, NJ, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: It is noted that, if multimedia electronic meeting and messaging systems were tightly integrated with networked CAE/CAD (computer-aided engineering and design) resources, great value could be added to modern design projects. Work in Bellcore's Integrated Media Architecture Laboratory (IMAL) relevant to these and other related capabilities is described. A working premises-based network with shared CAD/CAE systems, conferencing, and messaging servers, encompassing video, graphics, text and audio, has been constructed as part of the Bellcore IMAL project. The example IMAL network can be duplicated with off-the-shelf products and can be extended to link multiple premise locations through the use of commonly available DS-3 codecs and telephone-company-provided DS-3 fibers. (10 Refs)

Subfile: B C

Descriptors: CAD/CAM; computer networks; electronic messaging; multimedia systems; **teleconferencing**

Identifiers: multimedia **teleconferencing** ; broadband networks; shared resource servers; multimedia electronic meeting; networked CAE/CAD; computer-aided engineering and design; modern design projects; working premises-based network; shared CAD/CAE systems; conferencing; messaging servers; video; graphics; text; audio; Bellcore IMAL project; off-the-shelf products; multiple premise locations; DS-3 codecs; telephone-company-provided DS-3 fibers

Class Codes: B6210L (Computer communications); C7400 (Engineering); C6160Z (Other DBMS); C5620 (Computer networks and techniques)

20/5/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

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03756152 INSPEC Abstract Number: B90079298, C90072868

**Title: Extending the notion of a window system to audio**

Author(s): **Ludwig, L.F.** ; Pincever, N.; Cohen, M.

Author Affiliation: Bell Commun. Res., Ottawa, Ont., Canada

Journal: Computer vol.23, no.8 p.66-72

Publication Date: Aug. 1990 Country of Publication: USA

CODEN: CPTRB4 ISSN: 0018-9162

U.S. Copyright Clearance Center Code: 0018-9162/90/0800-0066\$01.00

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: With audio's increasing importance in computer applications, users will soon need presentation, management and organizational capabilities similar to visual window systems to avoid a confusing cacophony of multiple audio sources sounding at once. The ways in which an audio window system could be used are described. These include multimedia documents, spatial data management systems, and **teleconferencing**. The signal processing methods used to create hierarchical and spatial distribution among nearly arbitrary (not pure sine wave) audio sources are discussed. A prototype system, combining hierarchical and spatial processing functions with a computer-controlled switch, software and human input devices, is presented. Two envisioned implementations, a terminal-based system and a network-based server, are described. Preliminary work suggests that an effective audio window system needs much less complexity and fewer levels of digital signal processing precision than the current prototype. (12 Refs)

Subfile: B C

Descriptors: audio signals; audio systems; computer graphics; computerised signal processing; telecommunications computing;

**teleconferencing** ; user interfaces

Identifiers: computer applications; organizational capabilities; visual window systems; multiple audio sources; audio window system; multimedia documents; spatial data management systems; **teleconferencing** ; signal processing methods; spatial distribution; prototype system; spatial processing functions; computer-controlled switch; human input devices; terminal-based system; network-based server; digital signal processing precision

Class Codes: B6450 (Audio equipment and systems); C7410F (Communications); C5260 (Digital signal processing); C1250 (Pattern recognition); C6130B (Graphics techniques); C6180 (User interfaces)



20/5/5 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

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03709209 INSPEC Abstract Number: B90064345, C90058419

**Title: Collaboration awareness in support of collaboration transparency: requirements for the next generation of shared window systems**

Author(s): **Lauwers, J.C.** ; Lantz, K.A.

Author Affiliation: Olivetti Res. California, Menlo Park, CA, USA

Journal: SIGCHI Bulletin spec. issue. p.303-11

Publication Date: April 1990 Country of Publication: USA

CODEN: SGBUD4 ISSN: 0736-6906

U.S. Copyright Clearance Center Code: 0 89791 345 0/90/0004-0303\$1.50

Conference Title: CHI '90 Conference Proceedings. Empowering People

Conference Date: 1-5 April 1990 Conference Location: Seattle, WA, USA

Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Practical (P)

Abstract: Shared window systems enable existing applications to be shared in the context of a real-time **teleconference**. The development and successful use of several such systems, albeit within limited user communities, testifies to the merits of the basic idea. However, experience to date has suggested a number of areas that have not been adequately addressed, namely: spontaneous interactions, shared workspace management, floor control, and annotation and telepointing. This paper focuses on the ramifications, for the software designer, of various user requirements in these areas. While the recommendations that result are motivated by the desire to enable continued use of collaboration-transparent applications, addressing them involves the development of systems software that is distinctly collaboration-aware. (30 Refs)

Subfile: B C

Descriptors: **teleconferencing** ; user interfaces

Identifiers: collaboration transparency; shared window systems; real-time **teleconference** ; spontaneous interactions; shared workspace management; floor control; annotation; telepointing; user requirements

Class Codes: B6210P (Teleconferencing); B6430J (Applications of television systems); C6180 (User interfaces)

20/5/6 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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1245957 NTIS Accession Number: AD-A166 947/2

**Towards a Universal Directory Service**

(Technical rept)

Lantz, K. A. ; Edighoffer, J. L. ; Hitson, B. L.

Stanford Univ., CA. Dept. of Computer Science.

Corp. Source Codes: 009225004; 094120

Report No.: STAN-CS-85-1086

Aug 85 22p

Languages: English

Journal Announcement: GRAI8617

Also available as Rept. no. CSL-85-286. Presented at Symposium on the Principles of Distributed Computing, ACM (4th) Aug 85.

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NTIS Prices: PC A02/MF A01

Country of Publication: United States

Contract No.: MDA903-80-C-0102; N00039-83-K-0431

Directory services and name servers have been discussed and implemented for a number of distributed systems. Most have been tightly interwoven with the particular distributed systems of which they are a part; a few are more general in nature. In this paper we survey recent work in this area and discuss the advantages and disadvantages of a number of approaches. From this, we are able to extract some fundamental requirements of a naming system capable of handling a wide variety of object types in a heterogeneous environment. We outline how these requirements can be met in a universal directory service. In this paper we address a universal directory service that: can span a heterogeneous internetwork of existing naming domains; allows us to name, locate, and discover how to manipulate objects (including files, processes, mailboxes, people, and services); provides dynamic binding and context mechanisms; and can be integrated into most existing systems as a 'value-added' feature.

Descriptors: \*Directories; \*Distributed data processing; \*Information processing; Classification; Computer files; **Electronic mail**

Identifiers: \*Naming systems; \*Distributed computer systems; UDS(Universal Directory Service); NTISDODXA

Section Headings: 62B (Computers, Control, and Information Theory--Computer Software); 88E (Library and Information Sciences--Reference Materials)

20/5/8 (Item 1 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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03077865 E.I. Monthly No: EIM9106-025823

**Title: Integration of CAD/CAE with multimedia teleconferencing and messaging via broadband networks and shared resource servers.**

Author: Ludwig, Lester F.

Corporate Source: Bell Communications Res, Red Bank, NJ, USA

Conference Title: Proceedings of the First International Conference on Systems Integration - ICSI '90

Conference Location: Morristown, NJ, USA Conference Date: 19900423

Sponsor: IEEE Computer Soc; New Jersey Inst of Technology; ACM; AT&T; BellCore; GMD

E.I. Conference No.: 14173

Source: Proc First Int Conf Syst Integr ICSI 90. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA (IEEE cat n 90TH0309-5). p 136-143

Publication Year: 1990

ISBN: 0-8186-9027-5

Language: English

Document Type: PA; (Conference Paper) Treatment: X; (Experimental)

Journal Announcement: 9106

Abstract: It is noted that, if multimedia electronic meeting and messaging systems were tightly integrated with networked CAE/CAD (computer-aided engineering and design) resources, great value could be added to modern design projects. Work in Bellcore's Integrated Media Architecture Laboratory (IMAL) relevant to these and other related capabilities is described. A working premises-based network with shared CAD/CAE systems, conferencing, and messaging servers, encompassing video, graphics, text, and audio, has been constructed as part of the Bellcore IMAL project. The example IMAL network can be duplicated with off-the-shelf products and can be extended to link multiple premise locations through the use of commonly available DS-3 codecs and telephone-company-provided DS-3 fibers. 10 Refs.

Descriptors: \*COMPUTER NETWORKS; COMPUTER AIDED ENGINEERING; COMPUTER AIDED DESIGN; **TELECONFERENCING** ; **ELECTRONIC MAIL** ; **DIGI TAL** COMMUNICATION SYSTEMS

Identifiers: MULTIMEDIA COMMUNICATION; BROADBAND NETWORKS; IMAL PROJECT

Classification Codes:

723 (Computer Software); 718 (Telephone & Line Communications)

72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATIONS)

20/5/12 (Item 1 from file: 144)  
DIALOG(R) File 144:Pascal  
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09537618 PASCAL No.: 91-0328037

**Multidimensional audio window management**

COHEN M; LUDWIG L F

Northwestern univ., computer music, Evanston IL 60208, USA

Journal: International journal of man-machine studies, 1991, 34 (3)

319-336

ISSN: 0020-7373 CODEN: IJMMBC Availability: INIST-14299;

354000017430620010/NUM

No. of Refs.: 1 p.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: United Kingdom

Language: English

This paper proposes an organization of presentation and control that implements a flexible audio management system we call audio windows. The result is a new user interface integrating an enhanced spatial sound presentation system, and audio emphasis system, and a gestural input recognition system. We have implemented these ideas in a modest prototype, also described, designed as an audio server appropriate for a **teleconferencing** system

English Descriptors: **Teleconference** ; System design; Audioconference;  
Audio windowing

French Descriptors: **Teleconference** ; Conception systeme; Audioconference;  
Fenetrage audio

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8732	ludwig.in.	US-PGPUB; USPAT	OR	OFF	2006/03/15 12:28
L2	82	ludwig.in. and lester.in.	US-PGPUB; USPAT	OR	OFF	2006/03/15 12:58
L3	34	ludwig.in. and lester.in.	USPAT	OR	OFF	2006/03/15 12:29
L4	21	rolodex and 3	USPAT	OR	OFF	2006/03/15 12:30
L5	21	"hot key" and 4	USPAT	OR	OFF	2006/03/15 12:45
L8	933	715/751-758.ccls.	US-PGPUB; USPAT	OR	OFF	2006/03/15 12:49
L9	7806	((quick or personal) near5 (list or directory or table))	US-PGPUB; USPAT	OR	ON	2006/03/15 12:49
L10	21	9 and 8	USPAT	OR	OFF	2006/03/15 12:54
L13	6045	709/204-207.ccls.	US-PGPUB; USPAT	OR	OFF	2006/03/15 12:56
L14	318	13 and 9	US-PGPUB; USPAT	OR	OFF	2006/03/15 12:57
L17	30	rolodex and 14	US-PGPUB; USPAT	OR	OFF	2006/03/15 12:58
L18	182	video and 14	US-PGPUB; USPAT	OR	OFF	2006/03/15 12:59
L19	218	icon same 9	US-PGPUB; USPAT	OR	ON	2006/03/15 12:59
L20	43	18 and 19	US-PGPUB; USPAT	OR	ON	2006/03/15 12:59